

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

ORDER NO. 96-070

**WASTE DISCHARGE REQUIREMENTS
for
SEAGULL SANITATION SYSTEMS
(PEBBLY BEACH LANDFILL)
(File No. 72-030)**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds:

1. Seagull Sanitation Systems, a subsidiary of Consolidated Disposal Services, Inc. (hereafter "discharger") operates the Pebbly Beach Landfill, a 6.2-acre, Class III waste management facility located on Santa Catalina Island. The Santa Catalina Island Company is the legal owner of the property on which the site is located. The site is currently regulated by Order No. 72-70 adopted by this Regional Board on December 13, 1972, and subsequently amended by Order No. 93-062 on September 27, 1993.
2. A review of the current waste discharge requirements was conducted by Regional Board staff in accordance with Subsection 13263(e) of the California Water Code. These waste discharge requirements were modified after staff determined that operations at the site have significantly changed since the time of their adoption in 1972.

These waste discharge requirements have been revised to include additional findings, updated standard provisions, and a revised monitoring and reporting program.
3. The landfill is located approximately two miles from the city of Avalon in a former hardrock quarry, as shown on "Figure 1", which is incorporated herein and made part of this Order. Current permitted fill operations at the site encompass approximately 3.3 of the 6.2 acres. The landfill's latitude is 33° 19' 18"; its longitude, 118° 19' 04" at the entrance.
4. The site is unlined and does not have a Leachate Collection and Removal System (LCRS) or gas control system. All incoming nonhazardous solid waste that cannot be recycled is incinerated in a pit burner and the resulting ash is placed in the disposal area with noncombustible inert solid wastes and wastewater treatment sludge.
5. The Los Angeles County Regional Planning Commission granted a Conditional Use Permit (CUP), Case No. 2469-(4) to the disposal site on November 29, 1984. The CUP, which allows the discharger to incinerate incoming refuse, expires on November 29, 1999.

6. A periodic waste-load-checking program is currently being implemented at the site. This program will insure that unauthorized and hazardous materials are not deposited at this site. An extensive recycling program is also in place.
7. Incinerator ash and other fill are placed in relatively narrow lifts with the sequence of filling being from one end of the lift to the other in a linear fashion. When the fill height is achieved across the length of the lift, the sequence will be repeated.
8. This project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) in accordance with Title 14, California Code of Regulations, Chapter 3, Subsection 15301.
9. In order to implement a Municipal Solid Waste Landfill Permit Program that satisfies the requirements of Section 4005 of the Solid Waste Disposal Act (Subtitle D of the Resources Conservation and Recovery Act of 1976), the Regional Board will implement the Federal Subtitle D regulations to the extent that the Subtitle D regulations are more stringent than applicable Chapter 15 requirements, as authorized by Section 2510 of Chapter 15, and as adopted by State Water Resources Control Board (State Board) Resolution No. 93-62. Federal Subtitle D requirements are outlined in "Standard Provisions Implementing Subtitle D", which is incorporated herein and made part of this Order.
10. No expansion of the site beyond the current footprint will be allowed without the installation of containment features as required by Chapter 15 and Subtitle D Regulations. This Order specifies that final design and construction methods for any future proposed engineered systems be reviewed and approved by this Regional Board's Executive Officer prior to installation and use pursuant to § 6.A. of Standard Provisions.
11. Subtitle D prohibits the open burning of solid waste at municipal solid waste landfills after October 9, 1997. In anticipation of this requirement, the operator investigated various alternatives to the existing incinerator. The operator has proposed to co-compost biodegradable refuse with sewage sludge under forced aeration in a closed "Ag-Bag System". Non-biodegradable materials will be baled and landfilled in accordance with these waste discharge requirements.
12. There are no known Holocene faults located within 200 feet of the site. Landfill slopes will be designed and constructed in a manner that will resist settlement and prevent failure or problems associated with any future containment or gas systems during a maximum probable earthquake (MPE) event.
13. The site is underlain by Miocene quartz diorite. The primary bedrock structure at the site is a southeast dipping fracture set which may transmit water and landfill-derived fluids and pollutants in a direction related to the fracture pattern. While limited ground water may

exist in fractures, the Department of Water Resources has not designated basins for ground waters on any of the San Pedro Channel Islands.

14. Water supply wells for the City of Avalon are located approximately 1.5 miles northwest of the City and are situated approximately 1200 feet topographically higher than the elevation of the landfill. The closest well, located in alluvium approximately 1000 feet north and downgradient of the landfill, has been abandoned due to low yield.
15. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. The Plan contains water quality objectives and beneficial uses for ground waters of the San Pedro Channel Islands, Santa Catalina Island. Beneficial uses include municipal, domestic and agricultural supply and potentially, industrial service and process supply. The requirements in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.

This Regional Board has notified the discharger and interested agencies and persons of its intent to adopt waste discharge requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board in a public meeting heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED that the Seagull Sanitation Systems (discharger) shall comply with the following at the Pebbly Beach Landfill:

A. Acceptable Materials

1. The Pebbly Beach Landfill is a Class III waste management facility.
2. Wastes disposed of at this waste management facility shall be limited to certain nonhazardous solid wastes and inert solid wastes, dewatered sewage sludge, and water treatment sludge, as described in Section 2523(c) of Chapter 15.
3. Nonhazardous solid waste means all putrescible and nonputrescible solid, semi-solid and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid and semi-solid wastes, and other discarded solid and semi-solid wastes; provided that such wastes do not contain wastes which must be managed as hazardous wastes, or wastes which contain soluble pollutants in concentrations which exceed applicable water quality objectives, or could cause degradation to waters of the State.

4. Dewatered sewage sludge or water treatment sludge may be discharged under the following conditions:
 - a. In areas where natural geologic characteristics, and the consideration of all other factors listed in Section 2533(b) of Chapter 15, will insure no impairment of beneficial uses to ground water, or in areas with an approved leachate collection and removal system (LCRS) and liner systems designed to prevent such impairment, the sludge contains at least 20 percent solids if primary sludge, or at least 15 percent solids if secondary sludge, mixtures of primary and secondary sludges, or water treatment sludge; and
 - b. In areas where natural geologic characteristics and overall site containment quality cannot be determined, and where no approved leachate collection and removal system (LCRS) and liner systems exist, the sludge contains at least 50 percent solids, whether primary or secondary sludge, mixtures of primary and secondary sludges, or water treatment sludge; and
 - c. A minimum solids-to-liquids ratio of 5:1 by weight shall be maintained to insure that the co-disposal will not exceed the initial moisture-holding capacity of the nonhazardous solid waste.

B. Prohibitions

1. No hazardous wastes, designated wastes, or special wastes, such as liquids, oils, waxes, tars, soaps, solvents, or readily water-soluble solids, such as salts, borax, lye, caustic, or acids shall be disposed of at this waste management facility.
2. No semi-solid wastes shall be disposed of at this waste management facility, except as noted above. Semi-solid waste means waste containing less than 50 percent solids, as described in Section 2520(d)(3) of Chapter 15, other than dewatered sewage or water treatment sludge as described in Section 2523(c) of Chapter 15, and A-4, above.
3. No materials which are of a toxic nature, such as insecticides, poisons, or radioactive materials, shall be disposed of at this waste management facility.
4. No infectious materials or hospital or laboratory wastes, except those authorized for disposal to land by official agencies charged with control of plant, animal, and human disease, shall be disposed of at this waste management facility.
5. No pesticide containers shall be disposed of at this waste management facility, unless they are rendered nonhazardous by triple rinsing. Otherwise, they must be hauled offsite to a legal point of disposal.

6. No septic tank or chemical toilet wastes shall be disposed of at this waste management facility.
7. There shall be no discharge of wastes or waste byproducts (i.e., leachate or gas condensate) to natural surface drainage courses or to ground water.
8. There shall be no damage or nuisance to the community due to odors or unsightliness, which result from unreasonable practices in the disposal of wastes at this waste management facility, as defined in Section 13050(1) of the California Water Code.
9. Neither the disposal nor handling of wastes at this waste management facility shall create nuisance or pollution, as defined in Section 13050 of the California Water Code.

C. Ground Water Protection Standards

1. In accordance with Section 2552 of Chapter 15, the following water quality protection standards are established for this waste management facility:

<u>Parameter</u>	<u>Units</u>	<u>Maximum Value</u>
Total dissolved solids	mg/L	1000
Sulfate	mg/L	100
Chloride	mg/L	250
Boron	mg/L	1.0

2. Water quality protection standards may be modified by the Regional Board based on more recent or complete ground water monitoring data such as from the monitoring network required by Provision E.1. of this Order, changes in background water quality, or for any other valid reason.
3. The compliance point(s) where the water quality protection standards apply shall be located along all downgradient edges of the waste management facility.
4. The discharger shall comply with the attached "Standard Provisions for Implementing Subtitle D" for a detection monitoring program; in determining if a statistically significant increase is observed for any Constituent of Concern (COC); in the establishment of an evaluation monitoring program; and in the institution of a corrective action monitoring program.
5. The compliance period for which the water quality protection standards are applicable shall be the entire active life of the waste management facility, and during the closure and postclosure maintenance periods.

D. Requirements for Disposal Site Operations

1. All Federal, State, County and City sanitary health codes, rules, regulations and ordinances pertinent to the disposal of wastes on land shall be complied with in the operation and maintenance of this waste management facility.
2. The periodic load-checking-program currently used by the discharger shall continue to be implemented to prevent the disposal of hazardous wastes, designated wastes, or other unacceptable wastes.
3. The discharger shall comply with notification procedures contained in Section 13271 of the California Water Code in regards to the discharge of hazardous substances. The discharger shall remove and relocate to a legal point of disposal, in accordance with Los Angeles County Department of Health guidelines, any safely recoverable wastes which are discharged at this waste management facility in violation of these requirements. For the purpose of these requirements, a legal point of disposal is defined as one for which waste discharge requirements have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. The Regional Board shall be informed monthly, in accordance with the attached Monitoring and Reporting Program, whenever relocation of wastes is necessary. The source and final disposition of the wastes, as well as methods undertaken to prevent future recurrences of such disposal, shall also be reported. Those wastes which cannot be safely recovered shall be reported to the Regional Board in writing within 7 days of the discharge.
4. Wastes deposited at this waste management facility shall be contained, and shall not be permitted to migrate off the site, or to enter offsite water drainage ditches or watercourses.
5. All wastes shall be adequately covered at the end of the operating day in accordance with Section 2544 of Chapter 15. Interim cover is defined as daily cover and intermediate cover by Title 14, California Code of Regulations. Interim cover placed over wastes discharged to this waste management facility shall be designed and constructed to minimize percolation of precipitation through wastes and contact with material deposited. To this end, ponding of liquids over deposited wastes is prohibited. Other measures shall be taken as needed, to prevent a condition of nuisance from fly breeding, rodent harborage, and other vector-related activities.
6. Alternative daily cover may be used at the waste management facility with approval of the Executive Officer and with the concurrence of the California Integrated Waste Management Board and other regulating agencies.

7. The migration of gases from the waste management facility shall be controlled as necessary to prevent water pollution, nuisance, or health hazards.
8. Gas condensate gathered from any gas monitoring and collection system at this waste management facility shall not be returned to the site. Any proposed modifications or expansions to the system shall be designed to allow the collection, testing and treatment, or disposal by approved methods, of all gas condensate produced at the waste management facility.
9. The discharger shall intercept, remove, and dispose of any liquid detected in a leachate collection and removal system (LCRS) at this waste management facility at a legal point of disposal.
10. In any area within the waste management facility where seepage water is observed, provisions shall be made and/or facilities shall be provided to insure that seep water will not come in contact with decomposable refuse in the disposal site. The locations of all springs and seeps found prior to, during, or after placement of waste material that could affect this waste management facility shall be reported to the Regional Board.
11. Permanent drainage controls, structures, and facilities shall be designed to divert any precipitation or tributary runoff and prevent ponding and percolation of water at the waste management facility in compliance with Section 2546 of Chapter 15. When necessary, temporary structures shall be installed as needed to comply with this requirement.
12. The waste management facility shall be graded and maintained to promote runoff of precipitation and to prevent ponding of liquids and surface water. Erosion or washout of refuse or cover materials by surface flow shall be prevented.
13. Cut and subgrade slopes, fill slopes, and refuse cells shall be designed and excavated/constructed in a manner that will resist settlement and prevent failure or problems associated with any containment or gas systems during an MPE event.
14. No wastewater or storm water shall leave this site except as permitted by a National Pollutant Discharge Elimination System (NPDES) permit issued in accordance with the Federal Clean Water Act and the California Code of Regulations. The discharger shall develop and maintain a Stormwater Pollution Prevention Plan (Attachment A) for this waste management facility.
15. Any abandoned wells or bore holes under the control of the site owner or operator, and situated within site boundaries, must be located and properly modified or sealed to prevent mixing of any waters between adjacent water-bearing zones. A

notice of intent to decommission a well must be filed with the appropriate regulatory agencies prior to decommissioning. Procedures used to decommission these wells, or to modify wells still in use, must conform to the specifications of the local health department or other applicable agencies.

16. The Regional Board shall be notified of any incident resulting from site operations that may endanger health or the environment by telephone within 24 hours, and in writing within seven days. The written notification shall fully describe the incident, including time of occurrence and duration of the incident, a description of the type of, time of, and duration of corrective measures, when correction will be complete (if the endangerment is continual), and the steps taken or planned to reduce or prevent recurrence.

E. Provisions for Water Quality Monitoring

1. The discharger shall develop a workplan acceptable to the Executive Officer that describes the locations and construction details of a ground water and vadose zone monitoring network that will adequately ascertain if there is any impact to ground water quality as a result of the operation of this waste management facility. This workplan must be submitted to the Executive Officer within 60 days of adoption of this Order, and must include the following:
 - a. A map depicting the locations of the ground water monitoring wells and a rationale for their number and spatial distribution.
 - b. Drawings and data depicting construction details of the proposed ground water monitoring network. These data must include:
 - casing and bore hole diameters;
 - casing and screen materials (PVC, stainless steel, etc.);
 - depth of each hole;
 - size and positions of perforations;
 - method of joining casing sections together;
 - nature of filter material;
 - depth and composition of seals; and
 - method and length of time of well development.

This workplan shall also include a schedule for implementation within 60 days of approval by the Executive Officer.

2. The discharger shall develop a workplan acceptable to the Executive Officer to evaluate background water quality in the vicinity of the waste management facility. The workplan shall contain design specifications, proposed locations, and supporting rationale for monitoring wells in accordance with E1, above, or

alternative methods. The proposed monitoring wells will be used to obtain ground water samples representative of water quality equivalent to conditions anticipated to be naturally occurring at the downgradient boundaries of the waste management facility. The workplan must be submitted to the Executive Officer within 60 days of adoption of this Order. The workplan shall also include a schedule for implementation within 60 days after approval by the Executive Officer.

3. The discharger shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with Section 13267 of the California Water Code. Failure or refusal to furnish these reports, or falsifying any information provided therein, renders the discharger guilty of a misdemeanor and subject to the penalties stated in Section 13268 of the California Water Code. Monitoring reports shall be submitted in accordance with the specifications contained in the "Monitoring and Reporting Program", as directed by the Executive Officer. This Monitoring and Reporting Program is subject to periodic revisions as warranted.
4. The effectiveness of all monitoring wells, monitoring devices, and leachate and gas collection systems shall be maintained for the active life of this site and during the closure and postclosure maintenance periods. If any of these wells and/or monitoring devices are damaged, destroyed or abandoned for any reason, the discharger shall provide substitutes acceptable to the Executive Officer to meet the monitoring requirements of this Order.
5. The discharger shall insure that all of the monitoring wells and/or piezometers are in proper operating order at all times. The discharger shall develop and maintain a "Monitoring Well Preventative Maintenance Program" approved by the Executive Officer. Elements of the program should include a minimum of periodic visual inspections of the well integrity, pump removal and inspection, etc., plus appropriate inspection frequencies. If a well or piezometer is found to be inoperative, the Regional Board and other interested agencies shall be so informed in writing within seven days after such discovery, and this notification shall contain a time schedule for returning the well or piezometer to operating order. Changes to the existing program shall be submitted for Executive Officer approval at least 30 days prior to implementing the change(s).
6. If a well or piezometer is proposed to replace an inoperative well or piezometer identified in the "Well Preventative Maintenance Program", the discharger shall not delay replacement while waiting for Executive Officer approval. However, the technical report describing the location and construction details, in accordance with F1, above, shall be submitted to the Executive Officer within 30 days.

7. The discharger shall provide for the proper handling and disposal of water purged from the monitoring wells during sampling. Water pumped from the wells shall not be returned to that well (or any other well), nor shall it be used for dust control or irrigation without waste discharge requirements.

F. Provisions for Containment Structures

1. The waste management facility shall have containment structures which are capable of preventing degradation of the waters of the State. Construction standards for containment structures shall comply with Chapter 15 requirements and with the attached "Standard Provisions for Implementing Subtitle D". Design specifications are subject to the Executive Officer's review and approval prior to any construction.
2. The discharger shall submit detailed preliminary plans, specifications, and descriptions for all proposed containment structures and construction features for Executive Officer approval at least 60 days prior to construction. The preliminary plans shall contain detailed quality assurance/quality control for the proposed construction. A geologic map must be prepared for all final grades and inspected and approved by staff prior to construction of any liner system. No disposal shall occur in a new area until the corresponding construction is completed and certified by Regional Board staff. The discharger shall also submit a description of, and location data for, ancillary facilities, including roads, waste handling areas, buildings, and equipment cleaning facilities. As-built plans shall be submitted within 60 days after the completion of construction. If the as-builts are virtually identical to the approved preliminary plans and specifications, only change sheets need be submitted in lieu of complete as-built plans. Along with the change sheets or as-builts, the discharger shall submit a program which will provide for the annual testing of any leachate collection and removal system (LCRS) to demonstrate its operating efficiency.
3. A legal description of the property boundaries of the waste management facility shall be provided and permanent survey monuments shall be installed. The discharger shall also provide a scaled drawing of the site showing the legal description boundaries, the boundaries of the fill area, elevations of the waste management facility, permanent monuments, structures and other significant features, within 60 days of adoption of this Order.
4. Benchmarks shall be established and maintained at the waste management facility in sufficient numbers to enable reference to key elevations and to permit control of critical grading and compaction operations.

G. Provisions for Reporting Scheduled Activities

1. The discharger shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
2. The discharger shall notify the Regional Board in writing within seven days, if fluid is detected in a previously dry leachate detection system, an LCRS, or if a progressive increase in the liquid volume is detected in an LCRS.
3. The discharger shall submit an "Operation Plan" within 60 days after adoption of this Order, for approval by the Executive Officer, describing the waste management facility operation which shall include:
 - a. Contingency plans for the failure or breakdown of waste handling facilities which could have any potential water quality effects, including notice of any such failure, or any detection of waste or leachate in monitoring facilities, to the Regional Board, appropriate local governments, and water users downgradient of the waste management facility.
 - b. A description of inspection and maintenance programs which will be undertaken regularly during disposal operations, the closure, and the postclosure maintenance period of facilities or equipment, which could have any potential water quality effects.
4. The discharger shall notify the Regional Board of changes in operations, including any material change in the types, quantities, or concentrations of wastes discharged; or site operations and features. The discharger shall notify the Regional Board at least 120 days before any material change is made.
5. The discharger shall notify the Regional Board in writing of any proposed change of ownership or responsibility for construction, operation, closure, or postclosure maintenance of this waste management facility. This notification shall be given prior to the effective date of the change and shall include a statement by the new discharger that construction, operation, closure, and postclosure maintenance will be in compliance with any existing waste discharge requirements and any revisions.
6. The discharger shall comply with the closure and postclosure maintenance requirements and notification requirements contained in Chapter 15. Closure must be in accordance with a Closure Plan and Postclosure Maintenance Plan approved by the Executive Officer and the California Integrated Waste Management Board.

7. The discharger shall submit a plan to be approved by the Executive Officer, within 60 days after adoption of this Order, demonstrating compliance with Subsection 2580(f) of Chapter 15, which requires that the discharger provide for funding to insure that closure and postclosure maintenance activities are properly performed (unless this requirement is less stringent than laws or regulations adopted regarding closure and postclosure plans for other regulatory agencies in which case, the discharger must comply with the most stringent requirements).

H. General Provisions

1. The discharger shall comply with all other applicable provisions, requirements, and procedures contained in the most recent revision of Chapter 15 and any future amendments.
2. The discharger shall comply with all applicable provisions, requirements, and procedures contained in "Standard Provisions for Implementing Subtitle D" and any amendments, to the extent that the "Standard Provisions for Implementing Subtitle D" are more stringent than applicable Chapter 15 requirements, as authorized by Section 2510 of Chapter 15, and State Board Resolution 93-62.
3. Regional Board staff shall be allowed entry to the waste management facility and to areas where records are kept regarding the waste management facility, at any reasonable time. Staff shall be permitted to inspect any area of the landfill and any monitoring equipment used to demonstrate compliance with this Order. Staff shall be permitted to copy any records, photograph any area, obtain samples, and/or monitor operations to assure compliance with this Order, or as authorized by applicable laws or regulations.
4. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
5. This Regional Board considers the property owner(s) to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge, and from gases and leachate that may be caused by infiltration or precipitation of drainage waters into the waste disposal areas, or by infiltration of water applied to this property during subsequent use of the land for other purposes.
6. These requirements do not exempt the operator of this waste management facility from compliance with any other current or future law which may be applicable. The requirements are not a permit; they do not legalize this waste management facility, and they leave unaffected any further restraints on the disposal of wastes at this waste management facility which may be contained in other statutes.

7. The requirements adopted herein do not authorize the commission of any act causing injury to the property of another, nor protect the operators from their liabilities under Federal, State or local laws.
8. The filing of a request by the discharger for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any condition, provision, or requirement of this Order.
9. This Order does not convey any property rights of any sort, or any exclusive privilege.
10. The discharger must comply with all of the terms, requirements, and conditions of this Order. Any violation of this Order constitutes a violation of the California Water Code, and is grounds for enforcement action, Order termination, Order revocation and reissuance, denial of an application for reissuance, or a combination thereof.
11. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - a. Violation of any term or condition contained in this Order;
 - b. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;
 - c. A change in any condition that required either a temporary or permanent reduction or elimination of the authorized waste discharge.
12. According to Section 13263 of the California Water Code, these requirements are subject to periodic review and revision by this Regional Board.
13. Order No. 72-70, adopted by the Regional Board on December 13, 1972, is hereby rescinded.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on September 30, 1996.



ROBERT P. GHIRELLI, D.Env.
Executive Officer

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. 5770
FOR
SEAGULL SANITATION SYSTEMS
(Pebbly Beach Landfill)**

(File No. 72-030)

Seagull Sanitation Systems (discharger) shall implement this Monitoring and Reporting Program beginning in the first quarter immediately following adoption of these Waste Discharge Requirements.

I. GROUND WATER AND VADOSE ZONE MONITORING

A. Provisions and General Requirements

1. For the purposes of this Program, the terms "Monitoring Well", "Extraction Well", "Observation Well", "Piezometer", "Lysimeter", and "Sump" are synonymous.
2. The ground water and vadose zone monitoring program must be carried out during the active life of this waste management facility, during the closure and postclosure maintenance, and during any interim periods when no wastes are deposited at the waste management facility.
3. Analytical results for ground water monitoring shall be submitted with the corresponding monthly waste disposal report. If a well was not sampled (or measured) during the reporting period, the reason for the omission shall be given. If no fluid was detected in a monitoring well, a statement to that effect (in lieu of analyses) shall be submitted.
4. Monthly observations and measurements of the static water levels shall be made on all monitoring wells, and records of such observations shall be submitted with the monthly reports. All monitoring wells shall be sounded each September to determine total depth. Wells affected by pumping shall be measured prior to pumping insofar as is possible.
5. Duplicate samples shall be taken for all metals analyses. Unfiltered samples shall be tested for total metals, and field-filtered samples (.45 microns) shall be tested for dissolved metals. Both samples must be preserved with nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.

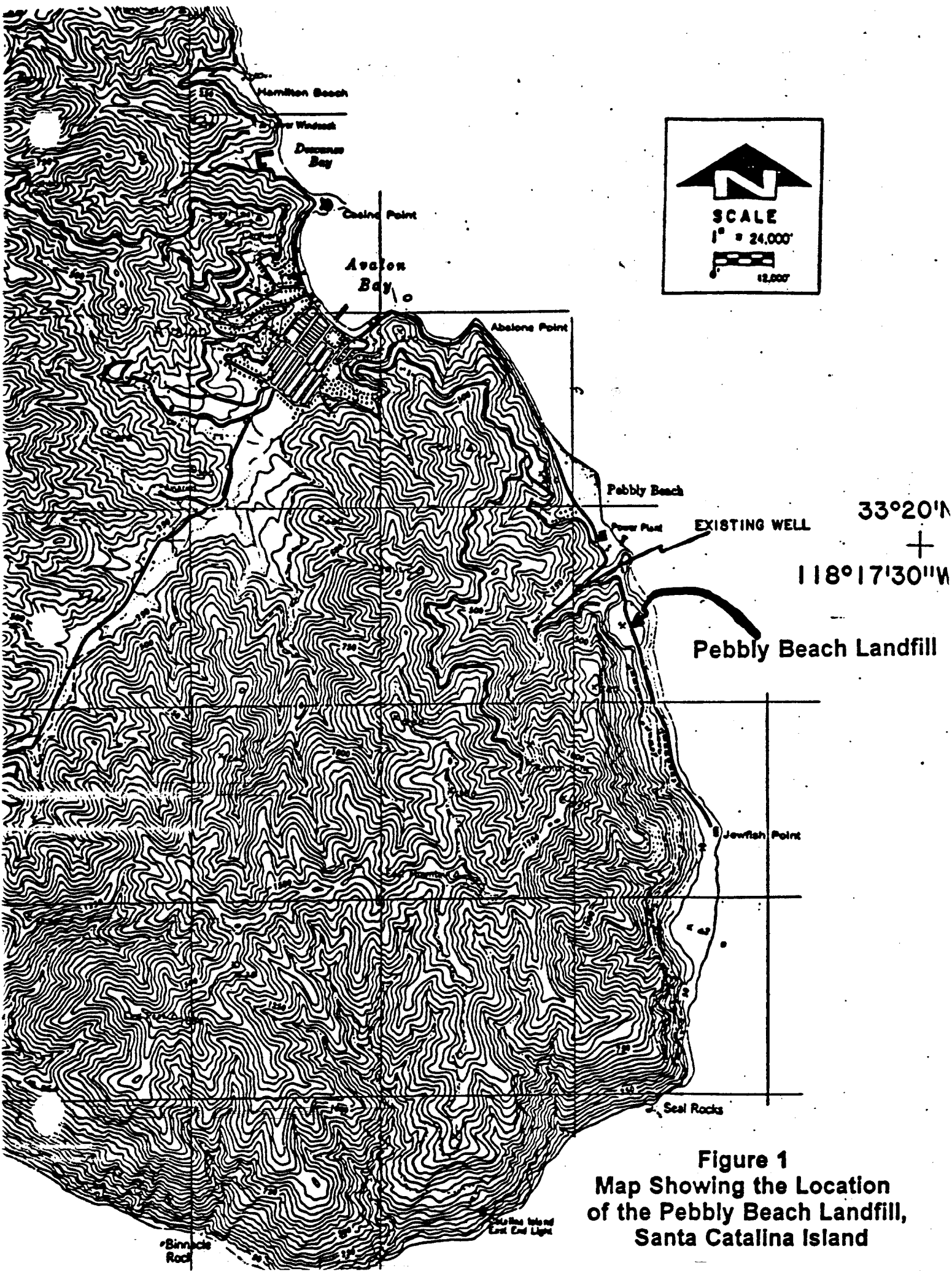


Figure 1
Map Showing the Location
of the Pebbly Beach Landfill,
Santa Catalina Island

**SEAGULL SANITATION SYSTEMS
PEBBLY BEACH LANDFILL
Monitoring and Reporting Program
CI No. 5770**

Order No. 96-070

6. No filtering of samples taken for VOC's analyses shall be permitted.
7. The velocity and direction of ground water flow under the waste management facility shall be determined quarterly for the first year and every third quarter thereafter. In the case where this cannot be determined with meaningful results, a statement to the nature of the ground water flow and general flow characteristic will suffice. ("Third" means the July-to-September quarter.)
8. Pumping data regarding fluid pumped from each well (other than for analytical samples) shall be reported to the Regional Board each month in the monthly waste disposal report and shall include:
 - a. Date and quantity of fluid pumped, and the method of disposal or reuse purpose, if reused.
 - b. If no fluid was pumped during the month from any monitoring well, a statement to that effect shall be submitted.

B. Monitoring Well Network

In accordance with Provision E1 and E2 of Order No. 96-070, a ground water and vadose zone monitoring network, and network to determine background concentrations of constituents of concern (COCs), shall be established by the discharger and approved by the Executive Officer.

C. Sampling and Analyses

1. Routine quarterly (or twice-annually if allowed after one-year) sampling and analyses of ground water or soil pore liquids shall consist of the following indicator parameters:

INDICATOR PARAMETERS

<u>Parameters</u>	<u>Units</u>
pH ⁽¹⁾	pH Units
Electrical conductivity	µmhos/cm
BOD ₅ 20°C	mg/L
COD	mg/L
Total dissolved solids (TDS)	mg/L
Boron	mg/L
Alkalinity ⁽¹⁾	mg/L
Ammonia (as N)	mg/L

INDICATOR PARAMETERS

<u>Parameters</u>	<u>Units</u>
Bicarbonate (HCO_3)	mg/L
Calcium	mg/L
Chloride	mg/L
Iron (total and dissolved)	mg/L
Total hardness (as CaCO_3)	mg/L
CO_2 ^[1]	mg/L
Fluoride	mg/L
Sulfate	mg/L
Sodium	mg/L
Potassium	mg/L
Nitrate (as N)	mg/L
Total organic carbon	mg/L
Total organic halogens	µg/L

[1] Although field determination is the preferred procedure for pH determination in the presence of dissolved carbon dioxide, pH may be determined in the laboratory if the total elapsed time between sampling and testing is less than 6 hours, and the sample is properly sealed during transit. Each report shall certify that these conditions were met if laboratory determination of these parameters was done in lieu of field determination.

2. Routine quarterly sampling and analyses shall consist of the COCs listed in Attachment I, "Appendix I and Appendix II Constituents".

After one year of quarterly monitoring, the Regional Board shall re-evaluate the frequency of monitoring these constituents.

II. GENERAL REPORTING REQUIREMENTS

- A. The discharger shall implement this Monitoring and Reporting Program beginning 60 days after the adoption of Order No. 96-070. Monitoring reports shall be submitted to the Regional Board monthly, due 45 days from the last day of the month of the monitoring period. Subsequent to receipt of any reports required by Water Quality Monitoring item E-1 and E-2 of Order No. 96-070, this Monitoring and Reporting Program shall be revised accordingly.
- B. The discharger shall submit all monitoring data in hard copy form and also on 3-1/2 inch computer diskette. The monitoring data submitted on diskette must be IBM compatible, preferably using Excel or dBase software, or in ASCII format, and should be in a cumulative, updated form with each submittal. Monitoring data submitted in hard copy should be in discrete, noncumulative form.

**SEAGULL SANITATION SYSTEMS
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Monitoring and Reporting Program
CI No. 5770**

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- C. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency, and the laboratory must meet EPA Quality Assurance/Quality Control criteria.
- D. For any analyses performed for which no procedures are specified in the EPA guidelines or in this Monitoring Program, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.
- E. The discharger may submit additional data to the Regional Board not required by this program in order to simplify reporting to other regulatory agencies.
- F. Quarterly monitoring for the first year shall be performed during the months of March, June, September and December. Thereafter, the discharger shall continue quarterly monitoring, or may propose to sample twice-annually as described in §12 B.1. of "Standard Provisions for Implementing Subtitle D" included as part of Order No. 96-070. Annual monitoring shall be performed during the month of September. If the event monitoring is not performed as above because of unforeseen circumstances, substitute monitoring shall be performed as soon as possible after these times, and the reason for the delay shall also be given.
- G. This Monitoring and Reporting Program includes the attached "Standard Provisions Applicable to Waste Discharge Requirements" (Attachment II). If there is any conflict between provisions stated herein and the "Standard Provisions Applicable to Waste Discharge Requirements", these provisions stated herein will prevail.
- H. Where the units for a parameter are listed as µg/L (ppb), suitable analytical techniques shall be used to achieve this precision. All method detection limits shall be below the current Maximum Contaminant Levels (MCLs) promulgated by the California Department of Health Services, or the minimum limit of detection specified in EPA Methods or Appendix A, 40 CFR 136, if the MCL is not achievable.
- I. Analytical data reported as "less than ..." shall be reported as less than a numeric value, or below the limit of detection for that particular analytical method (also give the limit of detection).
- J. All analytical samples obtained for this Program shall be grab samples.
- K. If the discharger performs analyses for any parameter more frequently than required by this program using approved analytical methods, the results of those analyses shall be included in the monitoring report.

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- L.** The waste-load-checking program currently being implemented at the existing waste management facility is to be continued. The results of the waste-load-checking program shall be reported in each monitoring report. In the event that hazardous wastes or other unacceptable materials are detected, the type, source, and disposition of those wastes shall also be reported.
- M.** The discharger shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies for a period of at least five years. This period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire waste management facility.
- N.** Records of monitoring information shall include:
 - 1. The date, exact place, procedure, and time of sampling or measurement;
 - 2. The individual(s) who performed the sampling or measurement;
 - 3. The date(s) analyses were performed on the samples;
 - 4. The individual(s) who performed the analyses;
 - 5. The analytical techniques or methods used; and
 - 6. The results of the analyses or measurements.
- O.** The discharger shall comply with the "Standard Provisions Implementing Subtitle D" (Standard Provisions) in determining and reporting if a statistically significant increase is observed for any COC.
- P.** For any monitored waste parameter which is listed as such by the EPA or by the State of California, the discharger shall compare such data to the most stringent allowable concentrations under all existing Federal and State regulations.
- Q.** The discharger shall comply with the Standard Provisions in establishing an evaluation monitoring program and a corrective action program, should a statistically significant increase be observed for any COC.

III. WASTE DISPOSAL REPORTING REQUIREMENTS

- A.** The first report to the Regional Board shall include a map of the site, and shall indicate the area(s) where disposal is taking place or will begin. This map shall be updated monthly, and summarized and submitted with the annual report due March 1. If a new area is landfilled, it shall be identified in the corresponding monthly report.
- B.** A waste disposal report containing the following information shall be filed with this Regional Board each month:

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1. A tabular list of the estimated average monthly quantities (in cubic yards and tons) and types of materials (including dewatered sewage sludge) deposited each month.
2. An estimate of the remaining capacity (in cubic yards and tons), and the remaining life of the site in years and months.
3. A certification that all wastes deposited were deposited in compliance with the Regional Board's requirements, and that no wastes were deposited outside of the boundaries of the waste management facility as specified in the Regional Board's requirements.
4. A description of the location and an estimate of the seepage rate or flow of all known seeps and springs at the site.
5. The estimated amount of water used at the waste management area for landscape irrigation, compaction, dust control, etc., during the month. (If a source other than potable water is used, the sources and amounts of water from each source shall also be reported.)
6. Quantities of liquid pumped from the leachate monitoring sumps and/or extraction wells, including dates of removal, and the ultimate point of disposal, if other than an onsite leachate treatment plant. If no liquid was detected or pumped during the reporting period, a statement to that effect shall be submitted.

C. In addition to reporting the quantity of dewatered sewage sludge deposited each month as noted in IIIB.1. above, quarterly samples of incoming sludge shall be obtained and analyzed as follows:

1. A time-composite sludge sample shall be collected during a 24-hour period. The composite sample will consist of 12 subsamples taken at two-hour intervals. The subsamples shall be mixed as completely as possible into a single sample. The total percent solids of the sample shall be reported.
2. An extraction solution of the sludge shall be prepared for analyses using the Waste Extraction Test (WET) Method as contained in Title 22, California Code of Regulations, Section 66261.24, Appendix II (Title 22). All testing shall be done on 48-hour extracts. The extracts shall be analyzed for Soluble Threshold Limit Concentration (STLC) for the following metals: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, tin, vanadium, and zinc.

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3. The digested sludge itself shall also be analyzed semi-annually for the following parameters: polychlorinated biphenyls (PCBs), trichloroethylene (TCE), perchloroethylene (PCE), carbon tetrachloride, DDT, DDE, DDD, Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D and 2,4,5-TP (Silvex).
 4. These results shall be reported in the corresponding monthly report.
 5. Paragraph II K above applies to sludge analyses in the event that the discharger performs more monitoring than required.
- D. The discharger shall report all unacceptable (to this site) wastes inadvertently received at this site and their disposition. The following details shall be included:
1. The source (if known), including the hauler, of the unacceptable wastes and date received and/or discovered.
 2. Identification of waste (if known) and the amount of waste.
 3. The name and address of the hauler who removed the waste from this site.
 4. The ultimate point of disposal for the waste.
 5. The discharger's actions to prevent recurrence of the attempted depositing of unacceptable wastes by this source or individual (if applicable).
- If no unacceptable wastes were received (or discovered) during the month, the report shall so state.

Ordered By:


ROBERT P. GHIRELLI, D.Env.
Executive Officer

Date:

September 30, 1996

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